

II. CLAIMS

1. (Previously Presented) A method of operating electric circuitry included in an exchangeable cover part for supporting a user interface of a wireless terminal, said wireless communication terminal and said user exchangeable cover part are electrically interconnected by means of an electrical connector having a plurality of pins, said method comprises:

identifying a type of said user exchangeable cover part by

operating at least one connector pin in an identification state for sensing a value included in a cover type indicator, wherein the at least one connector pin operating in the identification state is a bi-directional and bi-mode signal pin;

after identifying the type of cover, selecting a data mode corresponding to the identified cover type and setting a corresponding power supply level to be supplied by another one of the connector pins;

operating the at least one connector pin in an operation state for operating the electric circuitry of said user exchangeable cover part based on the identification of the cover type; and

enabling user defined mapping of a set of tones and/or sound effects to one or more keys connected to said electric circuitry of said user exchangeable cover and wherein said keys are configured to create sound comprising music composing applications, sound creating applications, system sound creation, sending sounds with multimedia messaging service or any combination thereof.

2. (Original) A method according to claim 1, wherein said value is a resistor value included in the cover type indicator.

3. (Previously Presented) A method according to claim 2, wherein the operation state is a frequency mode for directing an electrical representation of a ringing signal to the electric circuitry for providing an illumination effect following the ringing signal.

4. (Previously Presented) A wireless communication terminal having a user exchangeable cover part, wherein the wireless communication terminal and user exchangeable cover part are electronically interconnected by means of an electrical connector;

said user exchangeable cover part comprises a cover type indicator;

said user exchangeable cover part including an electric circuitry for supporting a user interface of said wireless terminal;

said connector includes a plurality of connector pins, where at least one of said connector pins is configured to allow said wireless terminal to operate said user exchangeable cover in an identification state for sensing a value included in the cover type indicator to identify a cover type, wherein the at least one of said connector pins operating in an identification state is a bi-directional and bi-mode signal pin,

and after the cover type is identified, a data mode corresponding to the identified cover type is selected and an another one of the connector pins supplies a corresponding power supply level;

the connector pin operating in the identification state is operated in an operation state for operating the electric circuitry of said user exchangeable cover part based on the identification of the cover type; and

said user exchangeable cover part comprises one or more keys connected to said electric circuitry of said user exchangeable cover and configured to be mapped, as defined by a user, to a set of tones and/or sound effects wherein said keys are configured to create sound comprising music composing applications, sound creating applications, system sound creation, sending sounds with multimedia messaging service or any combination thereof.

5. (Original) A wireless communication terminal according to claim 4, wherein said connector pins are arranged in line in an equal distance.

6. (Previously Presented) A wireless communication terminal according to claim 5, wherein the connector pins are arranged at a rear side of the cover part.

7. (Original) A wireless communication terminal according to claim 6, wherein the number of connector pins is three.

8. (Original) A wireless communication terminal according to claim 6, wherein the number of connector pins is five.

9. (Original) A wireless communication terminal according to claim 5, wherein said value is a resistor value included in the cover type indicator.

10. (Original) A wireless communication terminal according to claim 6, wherein the operation state is a frequency mode for directing an electrical representation of a ringing signal to the electric circuitry for providing an illumination effect synchronised with the ringing signal.

11. (Previously Presented) A wireless communication terminal according to claim 4, wherein said set of tones and/or sound effects comprise music instrument digital interface tones.

12. (Cancelled)

13. (Previously Presented) A user exchangeable cover part for releasable attachment to a wireless communication terminal, wherein the user exchangeable cover part and wireless communication terminal in attached position are electrically interconnected by means of an electrical connector, wherein

said user exchangeable cover comprises a cover type indicator;

said user exchangeable cover includes an electric circuitry for supporting a user interface of said wireless terminal; and

said user exchangeable cover part comprises one or more keys connected to said electric circuitry of said user exchangeable cover and configured to map to a set of tones and/or sound effects, the mapping being defined by a user; and

said connector includes a plurality of connector pins, where at least one of said connector pins is configured to allow said wireless terminal to operate said user

exchangeable cover in an identification state for sensing a value included in the cover type indicator for identifying a cover type, wherein the at least one of said connector pins operating in an identification state is a bi-directional and bi-mode signal pin,

after identifying the type of cover, selecting a data mode corresponding to the identified cover type and setting a corresponding power supply level to be supplied by another one of the connector pins;

operating the at least one of said connector pins operating in the identification state in an operation state for operating the electric circuitry of said user exchangeable cover part based on the identification of the cover type wherein said keys are configured to create sound comprising music composing applications, sound creating applications, system sound creation, sending sounds with multimedia messaging service or any combination thereof.

14. (Original) A user exchangeable cover part according to claim 13, wherein said set of tones and/or sound effects comprise music instrument digital interface tones.

15. (Cancelled)

16. (Previously Presented) A method according to claim 1 further comprising, running a program stored in a memory located in the user exchangeable cover part on a processor located in the user exchangeable cover part.

17. (Previously Presented) A wireless communication terminal according to claim 4 wherein the user exchangeable cover part further comprises a processor for running a program stored in a memory of the user exchangeable cover part.

18. (Previously Presented) A user exchangeable cover part according to claim 13 further comprising a processor for running a program stored in a memory of the user exchangeable cover part.

19. (Previously Presented) A wireless communication terminal according to claim 4, wherein the at least one of said connector pins operating in an identification state is configured to operate in a frequency mode, a pulse width modulation mode and a cover type indication-mode.

20. (Previously Presented) The method of claim 1 further comprising loading at least one executable program from a multi-media memory card in the cover part to the wireless terminal, the executable program being configured to operate an application stored in a processor in the wireless terminal.

21. (Previously Presented) The method of claim 20 wherein the executable program is a music file or gaming file.

22. (Previously Presented) The method of claim 1 further comprising that in the identification state the at least one connector pin measures a resistance value of the cover type indicator and in the operation state the at least one connector pin is used for the transfer of data between the wireless terminal and the cover part.

23. (Previously Presented) The method of claim 1 further comprising that when the at least one connector pin is in the identification state, all other pins driving the at least one connector pin are set to a high impedance.

24. (Previously Presented) The method of claim 1 further comprising, after identifying the type of cover, selecting a data mode corresponding to the identified cover type and

setting a corresponding power supply level to be supplied by another one of the connector pins.

25. (Previously Presented) The method of claim 1 further comprising identifying that the cover is intelligent and defining a digital interface and power scheme.

26. (Previously Presented) The method of claim 1 further comprising identifying that the cover is not intelligent and defining an operating mode and a power scheme.

27. (Previously Presented) The method of claim 26 wherein the operating mode is a pulse mode, a PWM mode or a frequency mode.

28. (Previously Presented) The terminal of claim 4 further comprising that the bi-directional and bi-mode signal pin is used in a frequency mode, a PWM mode or a cover type indicator mode.

29. (Previously Presented) The terminal of claim 4 further comprising the bi-directional and bi-mode signal pin being located in the cover part.